

### Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An autonomic management apparatus for autonomic management of system resources on a grid computing system, the apparatus comprising:
  - a storage device storing executable code;
  - a processor executing the executable code, the executable code comprising:
  - a monitor module configured to monitor the grid computing system for a trigger event;
  - a policy module configured to access one of a plurality of system policies, each of the plurality of system policies corresponding to an operational control parameter of a system resource of the grid computing system, wherein the plurality of system policies comprises a system prediction policy; and
  - a regulation module configured to autonomically regulate the system resource in response to a recognized trigger event according to one of the plurality of system policies.
2. (Original) The apparatus of claim 1, wherein the trigger event comprises one of an initiation trigger event, a regulation trigger event, and a prediction trigger event.
3. (Original) The apparatus of claim 1, wherein the operational control parameter comprises a command to regulate the system resource.
4. (Original) The apparatus of claim 1, wherein the system resource comprises one of a client processor capacity, a client storage capacity, and a client memory capacity allocated to the grid computing system.

5. (Original) The apparatus of claim 1, wherein the regulation module comprises a reservation module configured to reserve the system resource for a grid system operation.

6. (Original) The apparatus of claim 1, wherein the regulation module comprises a termination module configured to terminate a reservation of a system resource for a grid system operation.

7. (Previously Presented) The apparatus of claim 1, wherein the regulation module comprises an arbitration module configured to arbitrate conflicting grid system operations according to an arbitration policy.

8. (Original) The apparatus of claim 1, wherein the regulation module comprises a profile module configured to store a system resource profile, the system resource profile identifying a system resource of a client, the system resource allocated by the client to the grid computing system.

9. (Previously Presented) The apparatus of claim 1, wherein the plurality of system policies further comprises at least one of a system regulation policy and a system termination policy.

10-19. (canceled)

20. (Currently Amended) A method for autonomic management of system resources on a grid computing system, the method comprising:

monitoring, by use of a processor, the grid computing system for a trigger event;  
accessing one of a plurality of system policies, each of the plurality of system policies corresponding to an operational control parameter of a system resource of the grid computing system, wherein the plurality of system policies comprises a system prediction policy; and

regulating the system resource in response to a recognized trigger event according to one of the plurality of system policies.

21. (Original) The method of claim 20, further comprising reserving the system resource for a grid system operation.

22. (Original) The method of claim 20, further comprising terminating a reservation of a system resource for a grid system operation.

23. (Currently Amended) A method for autonomic management of grid system resources on a grid computing system, the method comprising:

monitoring, by use of processor, the grid computing system for a trigger event, the trigger event comprising one of an initiation trigger event, a regulation trigger event, and a prediction trigger event;

accessing one of a plurality of system policies, wherein the plurality of system policies comprises a system prediction policy, each of the plurality of system policies corresponding to an operational control parameter of a system resource of the grid computing system, the operational control parameter comprising a command to regulate the system resource;

regulating the system resource in response to a recognized trigger event according to one of the plurality of system policies and, the system resource comprising one of a client processor capacity, a client storage capacity, and a client memory capacity allocated to the grid computing system;

storing a system resource profile, the system resource profile identifying a system resource of a client, the system resource allocated by the client to the grid computing system.

24. (Currently Amended) A computer readable storage medium ~~storing~~comprising  
~~executable computer readable code executed by a processor~~configured to carry out a  
method for autonomic management of system resources on a grid computing system, the  
method comprising:

monitoring the grid computing system for a trigger event;

accessing one of a plurality of system policies, each of the plurality of system  
policies corresponding to an operational control parameter of a system resource of the  
grid computing system, wherein the plurality of system policies comprises a system  
prediction policy; and

regulating the system resource in response to a recognized trigger event according  
to one of the plurality of system policies.

25. (Original) The computer readable storage medium of claim 24, wherein the  
trigger event comprises one of an initiation trigger event, a regulation trigger event, and a  
prediction trigger event.

26. (Original) The computer readable storage medium of claim 24, wherein the  
method further comprises reserving the system resource for a grid system operation.

27. (Original) The computer readable storage medium of claim 24, wherein the  
method further comprises terminating a reservation of a system resource for a grid system  
operation.

28. (Original) The computer readable storage medium of claim 24, wherein the  
method further comprises arbitrating conflicting grid system operations according to an  
arbitration policy.

29. (Original) The computer readable storage medium of claim 24, wherein the  
method further comprises storing a system resource profile, the system resource profile  
identifying a system resource of a client, the system resource allocated by the client to the  
grid computing system.

30. (Currently Amended) An apparatus for autonomic management of grid system resources on a grid computing system, the apparatus comprising:

a storage device storing executable code;

a processor executing the executable code, the executable code comprising:

means for monitoring the grid computing system for a trigger event;

means for accessing one of a plurality of system policies, each of the plurality of system policies corresponding to an operational control parameter of a system resource of the grid computing system, wherein the plurality of system policies comprises a system prediction policy; and

means for regulating the system resource in response to a recognized trigger event according to one of the plurality of system policies.

31. (Previously Presented) The apparatus of claim 1, wherein the system prediction policy is based on collected historical information.

32. (Previously Presented) The apparatus of claim 31, wherein the regulation module is further configured to predictively adjust the system resource according to the system prediction policy in anticipation of a typical resource usage.

33. (Previously Presented) The method of claim 20, further comprising predictively adjusting the system resource according to the system prediction policy in anticipation of a typical resource usage, wherein the system prediction policy is based on collected historical information.

34. (Previously Presented) The method of claim 20, further comprising adjusting a fee assessed to a user of the grid computing system based on a change in the system resource.

35. (Previously Presented) The method of claim 20, further comprising blocking a potential change in at least one of the system policies according to a threshold corresponding with a subscription criteria.